

Fiber Raceway System

Selection Guide



Fiber Cable Management Made Easy

Route, protect, and store fiber cabling with Leviton's Fiber Raceway System. The easy to design, easy to configure, easy to install cable management system provides a dedicated path for critical network cabling. Fiber Raceway is an ideal solution in data centers, head ends, telecom rooms, and wiring closets – virtually any application that requires fiber cable protection or segregation.

Adapts to Any Application

Raceway components are available in three colors (yellow, orange, and black), four sizes, and a wide variety of styles. Ducting is available solid or slotted, with or without covers; connecting components enable drop-offs and routing around obstacles. Mounting kits allow overhead, raised floor, and vertical installation.

Preserves Fiber Integrity

High impact thermoplastic construction ensures ample protection, rigidity, and support. Ducting won't sag under heavy cable loads, and accidental cable damage is prevented, minimizing network downtime. Plus, the system maintains a minimum bend radius of 30 mm at all times.

Assembles Quickly and Easily

Ducting is easily cut to size with a mitre saw, and the system installs with only a screwdriver and other simple carpentry tools. Connection components, including vertical and horizontal outlets and hardware-free covers, snap together tool-free, saving time and money. Side drop-off kits can be added after initial installation anywhere along the raceway to accommodate new cable routing to racks and cabinets.

Reduces Fire Damage

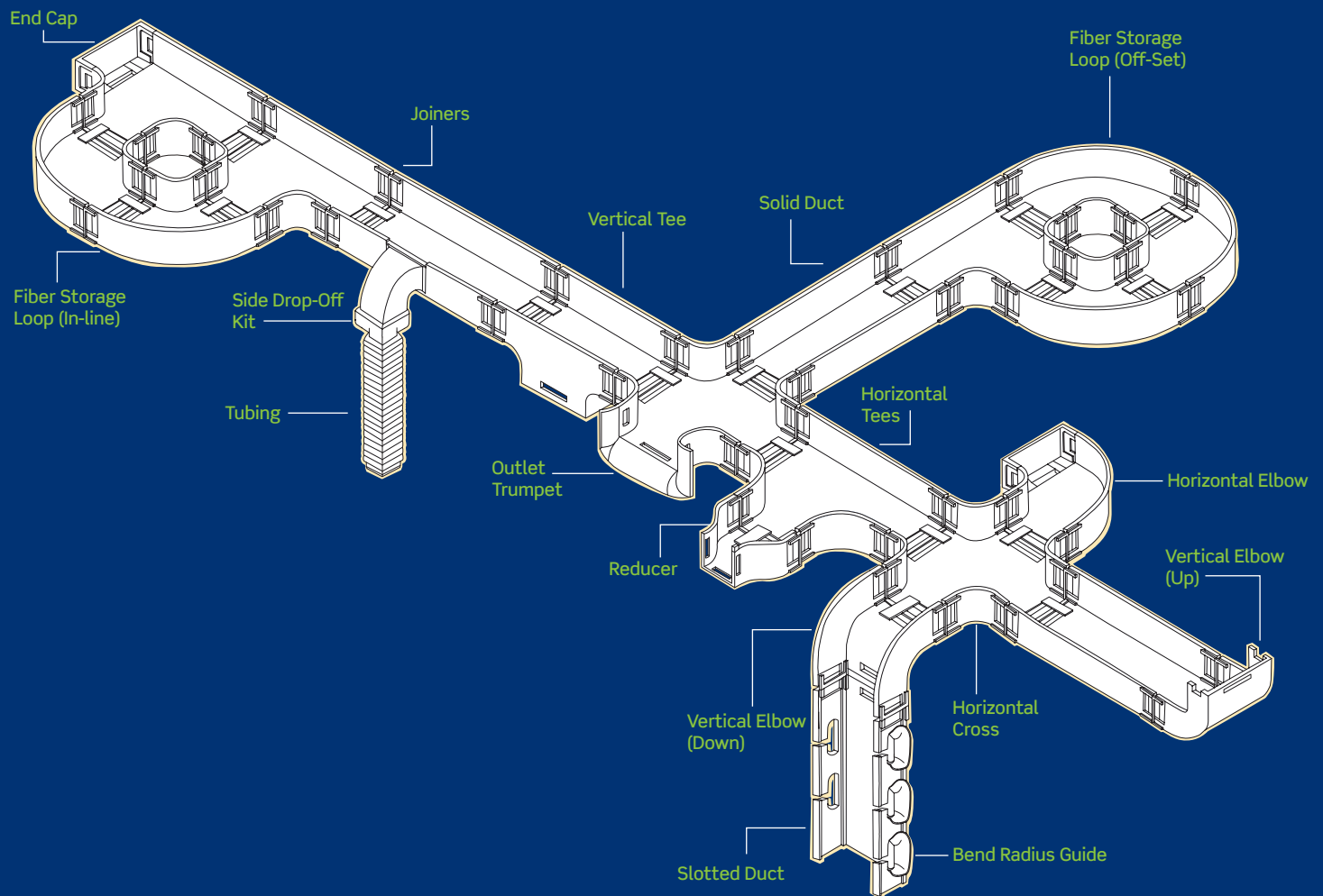
The Fiber Raceway System is UL 2024A listed for riser-rated telecommunications applications. In addition, raceway materials carry one of UL's highest flammability ratings, 94 V-0. They are also halogen-free and produce no corrosive acid or toxic gas emissions in the event of fire, making them ideal for sensitive environments from hospitals and nursing homes to telecom rooms and data centers.



A Configuration for Every Application

Imagine the possibilities.

Leviton's Fiber Raceway System has the flexibility to accommodate virtually any installation design. The perfect combination of components for your next project is just a page away.



System Design & Selection

1 Create Installation Floor Plan

Include rack or cabinet size and position as well as ladder racks, cable trays, and other ducting (HVAC) and raceway supports. Identify fiber drops and fiber density at each drop location.

Work with Leviton's Applications, Data Center, or Specifications Engineers for assistance optimizing your installation design, or visit www.leviton.com for downloadable tools including Visio stencils and CAD drawings in several formats.

2 Select Raceway Size

Fiber Raceway Ducting is available in four sizes from 2"x 2" to 4" x 12". Select the size or sizes that fit the installation space and allow for growth and component additions.

Cable exit points and drop-offs are also available in several sizes. These components have less capacity than ducting of the same size; the system may need to be sized accordingly.

The recommended capacities listed below will help prevent cable crushing and resulting damage. Initial fill should be no more than 50% of capacity to accommodate future growth.

Ducting and Components Capacity

| Duct Size - inches | | 2 x 2 | | | 4 x 4 | | | 4 x 8 | | | 4 x 12 | | |
|--------------------|--|---------|-------|-------|-----------|-------|-------|-----------|-------|-------|-----------|-------|-------|
| Duct Size - mm | | 50 x 50 | | | 100 x 100 | | | 220 x 100 | | | 300 x 100 | | |
| Cable Size - mm | | 3 | 2-2.4 | 1.6-2 | 3 | 2-2.4 | 1.6-2 | 3 | 2-2.4 | 1.6-2 | 3 | 2-2.4 | 1.6-2 |
| Capacity | Ducting | 120 | 155 | 265 | 500 | 700 | 1200 | 1100 | 1500 | 2500 | 1500 | 2100 | 3600 |
| | Ducting with Ramp-Off/Drop-Off | — | — | — | 300 | 400 | 700 | 720 | 1000 | 1700 | 1120 | 1600 | 2800 |
| | Vertical Tee - Horizontal Channel | 120 | 155 | 265 | 500 | 700 | 1200 | 500 | 700 | 1200 | 1500 | 2100 | 3600 |
| | Vertical Tee - Vertical/Drop-Off Channel | — | — | — | 500 | 700 | 1200 | 500 | 700 | 1200 | 1100 | 1500 | 2500 |

Convuluted Tubing Capacity

| Tubing Size | 1.5 in. round, split | | | 2 in. square | | |
|--------------------|----------------------|-------|-------|--------------|-------|-------|
| Optical Cable Size | 3 | 2-2.4 | 1.6-2 | 3 | 2-2.4 | 1.6-2 |
| Capacity | 24 | 30 | 50 | 120 | 155 | 265 |

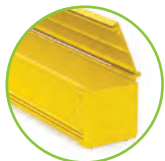
3 Select Ducting

Fiber Raceway System ducting is available in three colors: yellow, orange, and black. Differentiate redundant fiber networks with two colors of ducting, or run copper in black raceway.

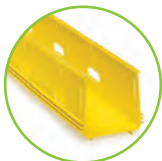
Solid duct is available in all sizes and colors and works well in a wide variety of installations. Slotted duct, available in 2" x 2" or 4" x 4" sizes, is ideal for carrying a high volume of pigtailed or patch cords that must exit at multiple locations. All ducting sizes and styles are also available with snap-on or hinged covers for added protection.



Solid Duct with Snap-On Cover



Solid Duct with Hinged Cover



Slotted Duct

4 Select Transition Components

Raceway bends and other transition points require connecting components. For directional and elevation changes as well as routing around obstacles, choose from horizontal and vertical elbows, horizontal tees, reducers, and crosses. Use joiners to connect all ducting sections and other components. Secure all raceway endpoints with end caps.



Joiner



Vertical Elbow



Horizontal Tee



Horizontal Cross



Reducer



End Caps

5 Select Vertical Drops

Facilitate fiber routing into racks and cabinets at each drop location with vertical drop components. Choose side drop-off kits, bend radius guides, or vertical tees connecting to trumpets, tubing, or slotted raceway ducting.



Vertical Tee with Trumpet



Side Drop-Off Kit with Trumpet



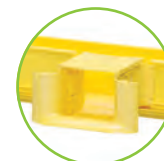
Side Drop-Off Kit with Convuluted Tubing



Side Drop-Off Kit with Slotted Ducting and Radius Guides



Radius Guides



Side Cut-Out with Trumpet

6 Select Mounting Hardware

Fiber Raceway System ducting can be mounted on walls, ladder rack, or unistrut; or to the top of equipment racks or frames. Select an appropriate mounting method from the examples below. Space mounting brackets every three feet on straight sections, mounted as close to joiners as feasible.



Wall-Mounting Kit



Wall Extension Bracket



Duct-Mounting Bracket



Suspension Kit



Raised-Mounting Kit



Ladder Rack/Unistrut Mounting Kit



Mounting Bracket for Unistrut



Threaded Rod Side-Mount Bracket



Retrofit Support Bracket

7 Create Materials List

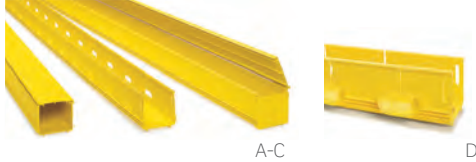
Complete part charts are listed on the following pages. Note part numbers and quantities for all needed raceway components. Be sure to include joiners, end caps, tubing, reducers, and mounting hardware. Order 10% more joiners, end caps, and brackets than anticipated to avoid shortages during installation.

| | Qty. | Part Number |
|---|------|-------------|
| ✓ | 12 | S2JNR-SLT |
| ✓ | 12 | S2HEL-30D |

Ordering Guide

Ducting & Bend Radius Guides

- Ducting is ideal for routing and supporting cables throughout fiber networks
- 6.5 foot sections can be hand cut to fit exact specifications
- Available in four sizes and three colors
- Slotted ducting ideal for cable with varying exit locations
- Order with snap-on covers, hinged covers, or uncovered
- Use bend radius guides with slotted ducting to safely exit fiber from raceway



Joiners

- Joiners create a rigid connection between ducting sections and other components
- Standard joiners install without tools; slotless joiners install using simple tools



Vertical Elbows

- Connect horizontal raceway at different heights and route raceway around obstacles
- Retrofit styles allow easy addition of new fibers



Vertical Tees

- Drop cables vertically from horizontal routes into frames or cabinets



Horizontal Tees

- Branch off the duct and extend the fiber route



Horizontal Elbows

- Change the direction of horizontal routes



Horizontal Crosses

- Allow easy fiber routing in all directions for increased expansion and adaptability



| | 2" X 2" | 4" X 4" | 4" X 8" | 4" X 12" |
|--|-----------|-----------|-----------|-----------|
| DUCTING | | | | |
| Solid Duct | S2DCT-SDT | *4DCT-SDT | *8DCT-SDT | *WDCT-SDT |
| [A] Solid Duct and Cover | S2DCT-SDC | *4DCT-SDC | *8DCT-SDC | *WDCT-SDC |
| [B] Slotted Duct | S2DCT-DSL | *4DCT-DSL | — | — |
| [C] Solid Duct and Hinged Cover | S2DCT-DHC | *4DCT-DHC | *8DCT-DHC | — |
| Slotted Duct and Cover | S2DCT-DCS | *4DCT-DCS | — | — |
| Slotted Duct and Hinged Cover | — | *4DCT-SHC | — | — |
| BEND RADIUS GUIDE | | | | |
| [D] Radius Guide (10 pack) | SRAGD-SLT | SRAGD-SLT | — | — |
| JOINERS | | | | |
| [E] Slotted Joiner | S2JNR-SLT | *4JNR-SLT | *8JNR-SLT | — |
| [F] Slotless Joiner | — | *4JNR-SLS | *8JNR-SLS | *WJNR-SLS |
| VERTICAL ELBOWS | | | | |
| Vertical Elbow 30° Down | S2VEL-30D | *4VEL-30D | *8VEL-30D | — |
| Vertical Elbow 30° Down and Cover | S2VEL-3DC | *4VEL-3DC | *8VEL-3DC | — |
| [G] Vertical Elbow 30° Down Retrofit | — | *4VEL-3DR | *8VEL-3DR | — |
| Vertical Elbow 30° Up | — | *4VEL-30U | *8VEL-30U | — |
| [H] Vertical Elbow 30° Up and Cover | — | *4VEL-3UC | *8VEL-3UC | — |
| Vertical Elbow 30° Up Retrofit | — | *4VEL-3UR | *8VEL-3UR | — |
| Vertical Elbow 45° Down | S2VEL-45D | *4VEL-45D | *8VEL-45D | *WVEL-45D |
| Vertical Elbow 45° Down and Cover | S2VEL-4DC | *4VEL-4DC | *8VEL-4DC | *WVEL-4DC |
| Vertical Elbow 45° Down Retrofit | — | *4VEL-4DR | *8VEL-4DR | — |
| Vertical Elbow 45° Up | — | *4VEL-45U | — | *WVEL-45U |
| Vertical Elbow 45° Up and Cover | S2VEL-4UC | *4VEL-4UC | *8VEL-4UC | *WVEL-4UC |
| Vertical Elbow 45° Up Retrofit | — | *4VEL-4UR | *8VEL-4UR | — |
| Vertical Elbow 90° Down | S2VEL-90D | *4VEL-90D | *8VEL-90D | *WVEL-90D |
| [I] Vertical Elbow 90° Down and Cover | S2VEL-9DC | *4VEL-9DC | *8VEL-9DC | *WVEL-9DC |
| Vertical Elbow 90° Down Retrofit | — | *4VEL-9DR | *8VEL-9DR | — |
| Vertical Elbow 90° Up | S2VEL-90U | *4VEL-90U | *8VEL-90U | *WVEL-90U |
| Vertical Elbow 90° Up and Cover | S2VEL-9UC | *4VEL-9UC | *8VEL-9UC | *WVEL-9UC |
| Vertical Elbow 90° Up Retrofit | S2VEL-9UR | *4VEL-9UR | *8VEL-9UR | — |
| Vertical Elbow 90° Up and Down Enclosed | — | *4VEL-9UD | *8VEL-9UD | — |
| VERTICAL TEES | | | | |
| Vertical Tee | S2VTE-TEE | *4VTE-TEE | *8VTE-TEE | *WVTE-TEE |
| [J] Vertical Tee and Cover | S2VTE-TEC | *4VTE-TEC | *8VTE-TEC | *WVTE-TEC |
| Vertical Tee Retrofit | S2VTE-TER | *4VTE-TER | *8VTE-TER | — |
| HORIZONTAL TEES | | | | |
| Horizontal Tee | S2HTE-TEE | *4HTE-TEE | *8HTE-TEE | *WHTE-TEE |
| [K] Horizontal Tee and Cover | S2HTE-TEC | *4HTE-TEC | *8HTE-TEC | *WHTE-TEC |
| HORIZONTAL ELBOWS | | | | |
| Horizontal Elbow 30° | S2HEL-30D | *4HEL-30D | *8HEL-30D | — |
| [L] Horizontal Elbow 30° and Cover | S2HEL-3DC | *4HEL-3DC | *8HEL-3DC | — |
| Horizontal Elbow 45° | S2HEL-45D | *4HEL-45D | *8HEL-45D | *WHEL-45D |
| Horizontal Elbow 45° and Cover | S2HEL-4DC | *4HEL-4DC | *8HEL-4DC | *WHEL-4DC |
| Horizontal Elbow 90° | S2HEL-90D | *4HEL-90D | *8HEL-90D | — |
| [M] Horizontal Elbow 90° and Cover | S2HEL-9DC | *4HEL-9DC | *8HEL-9DC | *WHEL-9DC |
| HORIZONTAL CROSSES | | | | |
| [N] Horizontal Cross | S2HCR-HCR | *4HCR-HCR | *8HCR-HCR | *WHCR-HCR |
| Horizontal Cross and Cover | S2HCR-HCC | *4HCR-HCC | *8HCR-HCC | *WHCR-HCC |

Dimensions listed as H x W.

Hinged cover for 2" x 2" ducting is in 8" sections.

2" x 4" and 2" x 8" components are available by special order.

* = Color: Choose from any of the colors to the right.

Orange and black are special order and require additional lead time. 2" x 2" is available in yellow only.



Yellow (S) Orange (O) Black (E)

| | 2" X 2" | 4" X 4" | 4" X 8" | 4" X 12" |
|--|-----------|-----------|-----------|-----------|
| STORAGE LOOPS | | | | |
| [A] Fiber Storage Loop Inline | S2FSL-INL | *4FSL-INL | *8FSL-INL | — |
| Fiber Storage Loop Offset | — | *4FSL-OFF | *8FSL-OFF | — |
| SIDE DROP-OFF KITS | | | | |
| [B] Side Drop-Off Kit (for raceway ducting) | S2DRP-DCT | *4DRP-DRP | — | — |
| Side Drop-Off Kit (for round tube) | S2DRP-TUB | — | — | — |
| Side Drop-Off Kit (for square tube) | S2DRP-STB | — | — | — |
| Outlet Trumpet | S2TRM-TRM | *4TRM-TRM | — | — |
| END CAPS | | | | |
| [C] End Cap, Standard | — | *4END-CAP | *8END-CAP | — |
| End Cap, Slotless | — | *4END-CSL | *8END-CSL | *WEND-CSL |
| End Cap, (two) .75" diameter knockouts | S2END-20D | — | — | — |
| End Cap, (one) 1.5" diameter knockout | S2END-38D | — | — | — |
| End Cap, (one) 1.5" hole | S2END-38H | — | — | — |
| End Cap Tube Outlet for 2" Tube | S2END-OUT | — | — | — |
| [D] End Cap, (two) 1.75" diameter knockouts | — | *4END-46D | — | — |
| [E] End Cap, (two) 1.25" diameter knockouts | — | *4END-32D | — | — |
| REDUCERS | | | | |
| Reducer to 2" x 2" | — | *4RDR-RDR | — | — |
| [F] Reducer to 2" x 2" & Cover | — | *4RDR-RDC | — | — |
| Reducer to 4" x 4" | — | — | *8RDR-RDC | — |
| Horizontal Cross & Cover | — | — | *8RDR-RRH | — |
| Reducer to 4" x 4" Right Hand | — | — | *8RDR-RHC | — |
| Reducer to 4" x 4" Right Hand & Cover | — | — | *8RDR-RLH | — |
| Reducer to 4" x 4" Left Hand | — | — | *8RDR-LHC | — |
| Reducer to 4" x 4" Left Hand & Cover | — | — | — | *WRDR-RDR |
| Reducer to 4" x 8" | — | — | — | *WRDR-RDC |
| Reducer to 4" x 8" and Cover | — | — | — | — |
| ADAPTERS TO MATE WITH ADC DUCTING* | | | | |
| Adapter Kit to ADC 4" Duct | — | — | S4ADP-ADC | — |
| Adapter Kit to ADC 4" Tee | — | — | S4ADP-TEE | — |
| Left Hand Adapter Kit to ADC 6" Duct | — | — | — | S8ADP-LAD |
| Right Hand Adapter Kit to ADC 6" Duct | — | — | — | S8ADP-RAD |
| Adapter Kit to ADC 6" Tee | — | — | — | S8ADP-TEE |
| TUBING (PVC, NON UL 94V-0 MATERIAL) | | | | |
| [G] Round, 2" diameter, 39" length (yellow) | — | — | — | S50RT-01M |
| Round, 2" diameter, 78" length (yellow) | — | — | — | S50RT-02M |
| Round, 1" diameter, 78" length (grey) | — | — | — | S25RT-02M |
| Round, 1.5" diameter, 78" length (black) | — | — | — | S38RT-02M |
| Round, split, .75" diameter, 78" length (grey) | — | — | — | S20RS-02M |
| Square, 2", 14" length (yellow) | — | — | — | S50ST-350 |
| [H] Square with cover, 2", 14" length (yellow) | — | — | — | S5STC-350 |
| Square, 1.25", 14" length (yellow) | — | — | — | S30ST-350 |

Dimensions listed as H x W.

† = Other manufacturer adapters available upon request.

2" x 4" and 2" x 8" components are available by special order.

* = Color: Choose from any of the colors below. Orange and black are special order and require additional lead time. 2" x 2" is available in yellow only.



Contact inside sales at 800.722.2082 to order. Callers outside the US and Canada, please dial +1.425.486.2222.

Fiber Storage Loops

- Organize excess patch cord lengths
- Available in two styles: inline for storing within the duct system and offset for outside the main duct



A

Side Drop Off Kit

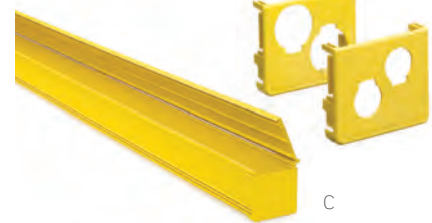
- Provide a safe exit for fiber cords at any point along ducting when dropping down to active equipment or work areas



B

End Caps

- Snap into place to seal the open end of standard ducting; can easily be removed for future system modifications
- Available in two styles: solid-walled, or with knockouts for flexible tubing or fiber feedout



C

D, E

Reducers

- Join varying ducting sizes together



F

Adapters

- Used to connect Leviton Fiber Raceway System with other brands

Tubing

- Manage fiber as it enters or exits equipment rack ducting
- Flexible/ribbed design allows for adjustment if drops cannot be positioned directly in line with equipment



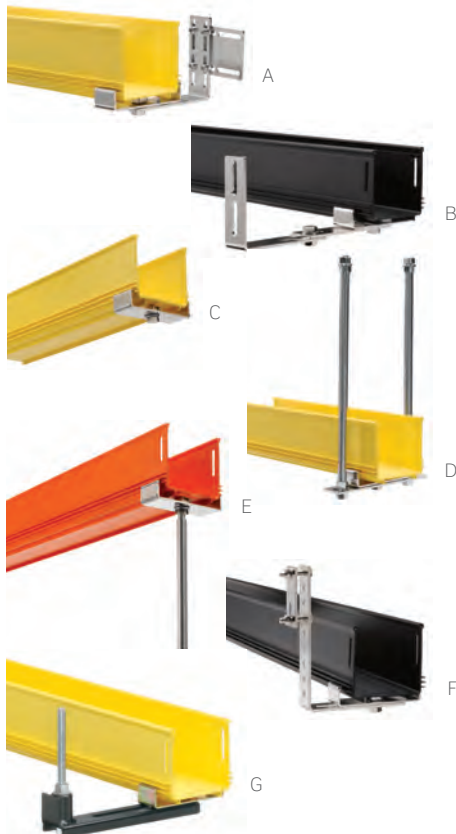
G

H

Round tubing shown with drop-off kit (drop-off kit sold separately)

Mounting Hardware

- Extensive selection enables Fiber Raceway installation above equipment racks and frames, under flooring, or on walls, ladder rack, or unistrut
- Several kit options for cutting and slotting duct during installation or upgrades



| MOUNTING HARDWARE | | |
|-------------------|--|-----------|
| [A] | 4" x 4" Wall-Mounting Kit | S4MNT-KIT |
| | 4" x 8" Wall-Mounting Kit | S8MNT-KIT |
| [B] | 4" x 4" Wall Extension Bracket (up to 10") Mounting Kit | S4EXT-KIT |
| | 4" x 8" Wall Extension Bracket (up to 14") Mounting Kit | S8EXT-KIT |
| | 2" x 2" Duct Mounting Bracket | S2DMB-000 |
| | 2" x 2" Duct Mounting Bracket | S2DMB-000 |
| [C] | 4" x 4" Duct Mounting Bracket | S4DMB-000 |
| | 4" x 8" Duct Mounting Bracket | S8DMB-000 |
| | 4" x 12" Duct Mounting Bracket | SWDMB-000 |
| | 4" x 4", 4" x 8", and 4" x 12" Retrofit Support Bracket (for existing 1/2" threaded rod) | SWRFK-12R |
| | 4" x 4" Suspension Kit (with 3.3' rod) | S4SUS-KIT |
| | 4" x 8" Suspension Kit (with 3.3' rod) | S8SUS-KIT |
| | 4" x 12" Suspension Kit (with 3.3' rod) | SWSUS-KIT |
| [D] | 4" x 12" Suspension Kit (without rod) | SWSUS-WRD |
| | 2" x 2" Raised Mounting Kit (for above or below cabinet) | S1RMK-000 |
| | 4" x 4" Raised Mounting Kit (for above or below cabinet) | S4RMK-000 |
| | 4" x 8" Raised Mounting Kit (for above or below cabinet) | S8RMK-000 |
| [E] | 4" x 12" Raised Mounting Kit (for above or below cabinet) | SWRMK-000 |
| | 2" x 2" Ladder Rack/Unistrut Mounting Kit | S1LRU-000 |
| | 4" x 4" Ladder Rack/Unistrut Mounting Kit | S4LRU-000 |
| [F] | 4" x 8" Ladder Rack/Unistrut Mounting Kit | S8LRU-000 |
| | 5/8" Threaded Rod Side Mount Bracket (threaded rod not included) | SMH00-SMB |

Contact inside sales at 800.722.2082 to order. Callers outside the US and Canada, please dial +1.425.486.2222.

Tools

- Several kit options for cutting and slotting duct during installation or upgrades
- Mitre boxes provide a stable channel for cutting ducting
- Cut-out tools prepare ducting for the addition of a Side Drop-off Kit



| TOOLS | | |
|-------|--|-----------|
| | Mitre Box (for 2" x 2" Ducting)* | SMTRE-050 |
| [H] | Mitre Box (for 4"x 4", 4"x 8", and 4"x 12" Ducting)* | SMTRE-300 |
| [I] | 2" Side Cut-Out Tool Kit (for use with 2" x 2" Side Drop-Off Kits)** | S2CUT-TOL |
| | 4" Side Cut-Out Tool Kit (for use with 4" x 4" Side Drop-Off Kits)** | S4CUT-TOL |
| [J] | 2" x 2" End Slot Tool (for use with 2" x 2" ducting when ducting is cut to length) | SSL0T-050 |
| | 4" x 8" End Slot Tool (for use with 4" x 4" and 4" x 8" ducting when ducting is cut to length) | SSL0T-200 |

Contact inside sales at 800.722.2082 to order. Callers outside the US and Canada, please dial +1.425.486.2222.